



PTO/SB/08A (08-03)

Substitute for form 1449A/PTO		Complete If Known	
		Application Number	09/870,453
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	October 2, 2001
		First Named Inventor	Eyal, Shulamit
		Art Unit	1841
		Examiner Name	Cook, Lisa V.
		Attorney Docket Number	20174C-002410US
Sheet	1	of	8

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. ¹	Document Number Number Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LVC	A1	US-3,570,515	03-18-1971	Kinner	
	A2	US-3,747,828	07-24-1973	Holster et al.	
	A3	US-4,048,159	09-08-1977	Pegourie	
	A4	US-4,119,368	10-10-1978	Yamakazi	
	A5	US-4,153,855	05-08-1979	Feingold	
	A6	US-4,245,873	01-20-1981	Boutelle et al.	
	A7	US-4,434,704	03-08-1984	Surjastmadja	
	A8	US-4,898,582	02-08-1990	Faste	
	A9	US-5,085,562	02-04-1992	Van Lintel	
	A10	US-5,088,515	02-18-1992	Kamen	
	A11	US-5,098,388	03-17-1992	Weinberg	
	A12	US-5,126,115	08-30-1992	Fujita et al.	
	A13	US-5,184,558	11-17-1992	Huff et al.	
	A14	US-5,171,132	12-15-1992	Miyazaki	
	A15	US-5,224,843	07-06-1993	Van Lintel	
	A16	US-5,259,737	11-09-1993	Kamisaki et al.	
	A17	US-5,265,327	11-30-1993	Faris et al.	
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	A19	US-5,338,082	08-09-1994	Richter	
	A20	US-5,348,372	09-13-1994	Naruse et al.	
	A21	US-5,375,979	12-27-1994	Trah	
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	A23	US-5,400,741	03-28-1995	DeTitta et al.	
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	A25	US-5,529,485	08-26-1996	Zengario et al.	
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	A27	US-5,642,016	08-24-1997	Whitehead et al.	
	A28	US-5,659,171	08-19-1997	Young et al.	
	A29	US-5,660,370	08-26-1997	Webster	
	A30	US-5,681,024	10-28-1997	Liseo et al.	
	A31	US-5,705,018	01-06-1998	Hartley	
	A32	US-5,759,014	06-02-1998	Van Lintel	
	A33	US-5,775,371	07-07-1998	Pen et al.	
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	A35	US-5,842,787	12-01-1998	Kopf-Sill et al.	
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	A37	US-5,878,187	03-02-1999	Afromowitz	
	A38	US-5,932,799	08-03-1999	Motes	
	A39	US-6,042,443	08-24-1999	Perce et al.	
	A40	US-6,007,309	12-28-1999	Hartley	
LVC	A41	US-6,043,080	03-28-2000	Lipshutz et al.	
Examiner Signature	Lisa V. Cook		Date Considered	1/11/05	

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			Examiner Name	Cook, Lisa V.	
Sheet	2	of	8	Attorney Docket Number	20174C-002410US

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LVC	A42	US-6,123,769	09-26-2000	Sanjoh	
	A43	US-6,155,282	12-05-2000	Zachary et al.	
	A44	US-6,174,365 B1	01-16-2001	Sanjoh	
	A45	US-6,296,673 B1	10-02-2001	Santarsiero et al.	
LVC	A46	US-6,409,832 B1	06-25-2002	Weigl et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)				
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	B11	PCT	WO 89/17093	A1	04-08-1999			<input type="checkbox"/>
LVC	B12	PCT	WO 00/60345	A1	10-12-2000			<input type="checkbox"/>

Examiner Signature	<i>Lisa V. Cook</i>	Date Considered	11/11/05
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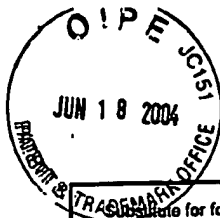
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L/C	C1	"Acousto-Optic Modulators" available at www.brimrose.com/acousto_modulators.html , 9-27-2000	
	C2	AHN et al., "Fluid Micropumps Based on Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), held in Amsterdam, Netherlands on 1/29-2/2/1995, pgs. 408-412.	
	C3	BENARD et al., "A Titanium-Nickel Shape-Memory Alloy Actuated Micropump," Proceedings of Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, IL, 6/16-19/1997, 1:361-364 (1997).	
	C4	BRECHTEL et al., "Control of the electroosmotic flow by metal-salt-containing buffers", J Chromatography A, 1995, pp. 97-105, Vol. 716	
	C5	BRYZEK et al., "Micromachines on the March", IEEE Spectrum, 1994, pp. 20-31, Vol. 31, No. 5	
	C6	BUCHAILLOT et al., "Silicon nitride thin films Young's modulus determination by an optical non-destructive method", Jpn. J Appl Phys, 1995, pp. L794-L797, Vol. 36, No. 2:6B	
	C7	CHIU et al., "Patterned Deposition of Cells and Proteins onto Surfaces by Using Three-Dimensional Microfluidic Systems", Proc. Natl. Acad. Sci., 2000, pp. 2408-2413, Vol. 97, No. 6	
	C8	DELAMARCHE et al., "Patterned delivery of immunoglobulins to surfaces using microfluidic networks", Science, 1997, pp. 779-781, Vol. 276	
	C9	DUFFY et al., "Patterning Electroluminescence Materials with Feature Sizes as Small as 5µm Using Elastomeric Membranes as Masks for Dry Lift-Off", Advanced Materials, 1999, pp. 546-552, Vol. 11, No. 7	
	C10	DUFFY et al., "Rapid Prototyping of Microfluidic Switches in Poly(dimethylsiloxane) and Their Actuation by Electro-Osmotic Flow" Journal of Microeng, 1999, pp. 211-217, Vol. 9	
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NON PATENT LITERATURE DOCUMENTS			
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LVC	C13	EFFENHAUSER et al.; "Integrated chip-based capillary electrophoresis", Electrophoresis, 1997, pp. 2203-2213, Vol. 18	
	C14	FAHRENBERG et al. "A microvalve system fabricated by thermoplastic molding", J Micromech Microeng, 1995, pp.169-171, Vol. 5	
	C15	GASS et al., "Integrated flow-regulated silicon micropump," Sensors and Actuators A Physical, 1994, p. 335-338, Vol. 43.	
	C16	GERLACH, T., "Pumping Gases by a Silicon Micro Pump with Dynamic Passive Valves," Proceedings of Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, IL, 6/16-19/1997, pp. 357-360, Vol. 1.	
	C17	GOLL et al., "Microvalves with bistable buckled polymer diaphragms," J. Micromech. Microeng., 1996, pp.77-79, Vol. 6	
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	C20	HORNBECK et al., "Bistable Deformable Mirror Device," Spatial Light Modulators and Applications 1988 Technical Digest Series, Volume 8, Postconference Edition, Summaries of papers presented at the Spatial Light Modulators and Applications Topical Meeting, June 15-17, 1988, Optical Society of America, pgs. 107-110.	
	C21	HOSOKAWA et al.; "Handling of Picoliter Liquid Samples in a Poly(dimethylsiloxane)-Based Microfluidic Device," Anal. Chem., 1999, 71(20):4781-4785	
	C22	IKUTA et al., "Three dimensional micro integrated fluid systems (MIFS) fabricated by stereo lithography," IEEE Kyushu Institute of Technology, 1994, pp. 1-6.	
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LVC	C24	JACOBSON et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," Anal. Chem., 1999, 71(20):4455-4459.	

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LVC	C25	JERMAN, H., "Electrically-Activated, Normally-Closed Diaphragm Valves," Proceedings of Transducers '91, 1991 International Conference on Solid-State Sensors and Actuators, pages 1045-1048 (1991).	
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	C27	KENIS et al. "Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning," Science, 1999, 285:83-85.	
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	C29	KOPP et al. "Chemical Amplification: Continuous-Flow PCR on a Chip", Science, 1998, 280:1048-1048.	
	C30	KUHN et al. "Silicon Charge Electrode Array for Ink Jet Printing", IEEE Transactions on Electron Devices, 1978, pp. 1257-1260, Vol. ED-25, No. 10.	
	C31	LIN et al. "Free-Space Micromachined Optical Switches for Optical Networking," IEEE J. Selected Topics in Quantum Electronics, 1999, pp. 4-9, Vol. 5, No. 1.	
	C32	LÖTTERS et al. "The mechanical properties of the rubber elastic polymer polydimethylsiloxane for sensor applications," J. Micromech. Microeng., 1997, 7:145-147.	
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	C35	MULLER et al., "Surface-Micromachined Microoptical Elements and Systems," Proceedings of IEEE, 1998, 86(8):1705-1720.	
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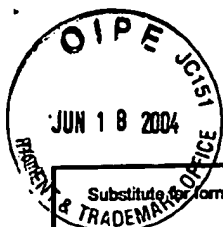
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LVC	C37	PETHIG & MARKX "Applications of dielectrophoresis in biotechnology," Tibtech, 15:426-432 (1997).	
	C38	QIN et al., "Photolithography with transparent reflective photomasks," J. Vac. Sci. Technology, 16(1):98-103 (1998).	
	C39	QIN et al., "Elastomeric Light Valves***," Adv. Mater., 1997, pp.407-410, Vol. 9, No. 5.	
	C40	RAPP. R., "LIGA micropump for gases and liquids," Sensors and Actuators A, 1994, pp.57-61, Vol. 40.	
	C41	ROYLANCE et al., "A Batch-Fabricated Silicon Accelerometer", IEEE Transactions on Electron Devices, December 1979, pp. 1911-1917, Vol. ED-26, No. 12.	
	C42	SCHASFOORT et al., "Field-Effect Flow Control for Microfabricated Fluidic Networks," Science, 1999, 286:942-945.	
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	C45	SHOJI, S., "Fluids for Sensor Systems", Topics in Current Chemistry, 1998, pp. 162-188, Vol. 194, Springer Verlag Berlin Heidelberg.	
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	C47	SOHN et al., "Capacitance cytometry: Measuring biological cells one by one," PNAS, 97(20):10687-10690 (2000).	
	C48	TUFTE et al., "Silicon Diffused-Element Piezoresistive Diaphragms," J. Appl. Phys., November 1982, pp. 3322-3327, Vol. 33, No. 11.	
LVC	C49	Ullmann's Encyclopedia of Industrial Chemistry, Sections 6 to 6.3, Topic: Carbon Black, Sixth Edition, 1999	

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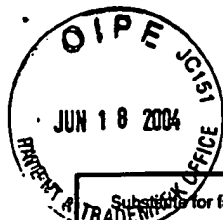
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LVC	C50	VAN DE POL et al., "Micro Liquid Handling Devices - A Review", Micro Systems Technologies, 1990, pp. 799-805, Vol. 90.	
	C51	VAN DE POL, F.C.M. et al. "A Thermo-Pneumatic Actuation Principle for a Microminiature Pump and Other Micromechanical Devices" Sensors and Actuators, 3 May 1989, pp. 139-143, Vol. 17, Nos. 1-2.	
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	C53	WASHIZU et al., "Molecular Dielectrophoresis of Biopolymers," IEEE Transactions on Industry Applications, 1994, 30(4):835-843.	
	C54	XIA et al., "Complex Optical Surfaces Formed by Replica Molding Against Elastomeric Masters," Science, 1998, 273:347-349.	
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	C59	YAZDI et al. "Micromachined Inertial Sensors," Proceedings of IEEE, 1998, 86(8):1640-1659.	
	C60	YOUNG et al. "Contoured elastic-membrane microvalves for microfluidic network integration," J. Biomechanical Engineering, 1999, 121:2-6.	
LVC	C61	Zengerle et al., "A Micro Membrane Pump with Electrostatic Actuation," 1992 IEEE Conf. on Micro Electro Mechanical Systems, held 2/4-7/92 in Trarvumunde Germany, pgs. 19-24.	

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LVC	C62	Zengerle et al., "Performance Simulation of Microminiaturized Membrane Pumps," from 7th International Conference on Solid-State Sensors and Actuators held 6/7-10/93 in Yokohama Japan, pages 106-109	

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